

A B S T R A C T

AN ELECTROMAGNETIC VALVE ACTUATOR WITH A PERMANENT MAGNET

5 The invention relates to an electromagnetic valve
actuator comprising an actuator member (11, 14) movable
under the effect of a resilient member (12, 13) and of at
least one coil (20), and at least one permanent magnet
10 (22) arranged to hold the actuator member (11, 14) in at
least one of its extreme positions against the resilient
member (12, 13) when the coil (20) is not powered, the
coil (20) being associated with a core (16) comprising
two portions (17) having respective first facets (21) in
15 contact with the permanent magnet (22) and respective
second facets (23) that present between them an airgap
(e) of size that is much smaller than a thickness (H) of
the permanent magnet. According to the invention, the
airgap (e) forms an angle with the direction (25) of
20 magnetization of the permanent magnet (22).

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35 Translation of the title and the abstract as they were when originally filed by the
Applicant. No account has been taken of any changes that may have been made
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38.2, and/or 48.3.